

IVANOV, V.A.

K.M.Bykov and I.T.Kurtsin's corticovisceral theory of the pathogenesis  
of peptic ulcer. Zhur. vys. nerv. deiat. 4 no.2:305-310 Mr-Apr '54.  
(MLRA 7:10)

(PEPTIC ULCER, etiology and pathogenesis,  
corticovisceral theory)  
(CEREBRAL CORTEX, pathology,  
corticovisceral theory in peptic ulcer)

IVANOV, V.A., professor

N.I.Pirogov and some problems of contemporary medicine. Klin.  
med. 32 no.8:72-82 Ag '54. (MLA 7:10)

1. Iz kafedry operativnoy khirurgii i topograficheskoy anatomii  
(zav. prof. V.A.Ivanov) II Moskovskogo meditsinskogo instituta  
imeni I.V.Stalina.  
(PIROGOV, NIKOLAI IVANOVICH, 1810-1881)



IVANOV, V.A.

Invagination of the colon with perforation of the caecum and  
prolapse of the appendix vermiformis. Khirurgia no.4:80-81  
Ap '55. (MLRA 8:9)

1. Sherokhovicheskaya rayonnaya bol'nitsa Novgorodskoy oblasti  
(INTESTINES--INTUSSUSCEPTION) (APPENDIX (ANATOMY))

IVANOV, V.A., professor; LOPUKHIN, Yu.M., kandidat meditsinskikh nauk.

Experimental cholecystopathy. Khirurgiia, Moskva no.5:15-19 My '55.  
(MLRA 8:9)

1. Iz kafedry operativnoy khirurgii s topograficheskoy anatomiyei  
zav.prof. V.A. Ivanov) II Moskovskogo meditsinskogo instituta  
imeni I.V. Stalina.

(GALL BLADDER, dis.  
exper.methods)

IVANOV, V.A.

Profuse hemorrhage of a gall bladder ulcer into the gastrointestinal tract. Vest.khir.76 no.10:127-129 N '55(MLRA 9:1)

1. Iz khirurgicheskogo otdeleniya (zav.--V.A.Ivanov) Sherekhovichskoy rayonnoy bol'nitsy.

(GALL BLADDER, ulcers

causing profuse hemorrhage in gastrointestinal tract)

(GASTROINTESTINAL SYSTEM, hemorrh.

caused by ulcer of gallbladder)

(HEMORRHAGE

gastrointestinal, caused by ulcer of gallbladder)

IVANOV, V.A., professor

The problem of surgical infection. Khirurgiia 32 no.7:3-13 J1 '56.  
(MIRA 9:11)

(SURGERY, OPERATIVE, compl.  
infect., review)

(INFECTION, etiol. and pathogen.  
postop. infect., review)

KRYUKOV, Yu.N.; IVANOV, V.A., prof. nauchnyy rukovoditel'.

Formation of postoperative hernias in acute experimental radiation sickness. Khirurgiia 33 no.8:95-97 Ag '57. (MIRA 11:4)

(ROENTGEN RAYS, eff.

on form hernia form. in exper. abdom. surg. in rabbits)

(ABDOMEN, surg.

exper., hernia form. induced by x-irradiation in rabbits)

(HERNIA, exper.

form. in rabbits, induced by x-irradiation after surg. of abdomen)



IVANOV, V.A.

~~Follow-up of asymptomatic gastroduodenal ulcers perforated~~  
unexpectedly and treated by suturing. Vest.khir. 78 no.3:104-108  
Mr '57. (MLEA 10:6)

1. Iz khirurgicheskogo otdeleniya (zav. V.A.Ivanov Sherekhovichskoy  
rayonnoy bol'nitsy. Adres avtora: Novgorodskaya oblast', Lyubytin-  
skiy rayon, s.Sherekhovichi, Sherekhovichskaya rayonnaya bol'nitsa.  
(PEPTIC ULCER, perf.  
surg., follow-up (Rus))

10-1000-001  
IVANOV, V.A., professor

Anatomy and pathology of the autonomic nervous system [with summary  
in English]. Khirurgiia 33 no.5:81-87 My '57. (MLRA 10:8)  
(AUTONOMIC NERVOUS SYSTEM,  
anat. & pathol. (Rus))

VOZNESENSKIY, Vladimir Petrovich; IVANOV, Vasiliiy Alekseyevich

[Operative surgery and topographic anatomy] Operativnaya khirurgiya  
i topograficheskaya anatomiya. Moskva, Medgiz, 1959. 470 p.

(MIRA 13:7)

(SURGERY, OPERATIVE) (ANATOMY, SURGICAL AND TOPOGRAPHICAL)

IVANOV, V.A....prof.

More on inflammation. Khirurgia 35 no.4:131-135 Ap '59.  
(MIRA 12:8)

1. Iz kafedry obshchey khirurgii (zav. - prof. V.A.Ivanov)  
lechebnogo fakul'teta II Moskovskogo meditsinskogo instituta  
imeni N.I.Pirogova.  
(INFLAMMATION (Rus))

IVANOV, V.A., prof.; SAFRONOV, A.A.

Treatment of trophic ulcers of the lower extremities. Khirurgiia 35  
no.7:66-69 JI '59. (MIRA 12:12)

1. Iz kliniki obshchey khirurgii lechebnogo fakul'teta (dir. - prof.  
V.A. Ivanov) II Moskovskogo gosudarstvennogo meditsinskogo instituta  
im. N.I. Pirogova na baze 4-y gorodskoy bol'nitsy (glavnyy vrach -  
zasluzhennyy vrach RSFSR M.V. Ivanyukov).

(LEG. diseases)

(ULCER, therapy)

IVANOV, V.A., (Prof) and MOLODENKOV, M. N. -- Moscow

"The Theory of Cardiospasm."

Report submitted for the 27th Congress of Surgeons of the USSR, Moscow,  
23-28 May 1960.

IVANOV, V.A.; YUKHTINA, Ye.M.

Theory of shock. Khirurgiia 36 no.3:47-54 Mr '60.

(MIRA 13:12)

(SHOCK)

IVANOV, V.A., prof.; MALINSKIY, N.Kh.

Treatment of patients with trophic ulcers of the lower extremities.  
Khirurgiia no,8:39-45 Ag '61. (MIRA 15:5)  
(EXTREMITIES, LOWER--ULCERS)



IVANOV, V.A., zasluzhennyy vrach RSFSR

Combination of perforating appendicitis with perforating ulcer  
of the duodenum. Vest.khir. no.9:127-129 '61. (MIRA 15:3)

1. Iz Sherekhovitskov rayonnoy bol'nitsy (glavnyy vrach -  
V.A. Ivanov) Novgorodskoy oblasti. Adres avtora: Novgorodskaya  
oblast', Lyubytinskiy rayon, s. Sherekhovich, rayonnaya bol'nitsa.  
(APPENDICITIS) (DUODENUM--ULCERS)

IVANOV, V. A., prof.; SUPER, N. A.

Surgery for acute cholecystitis. Khirurgiya 37 no.7:3-9 J1 '61.  
(NIRA 15:4)

1. Iz kliniki obshchey khirurgii (zav. - prof. V. A. Ivanov)  
lechebnogo fakul'teta II Moskovskogo gosudarstvennogo medi-  
tsinskogo instituta im. N. I. Pirogova i 4-y Gorodskoy klini-  
cheskoy bol'nitsy (glavnyy vrach G. P. Papko)

(GALL BLADDER--SURGERY)

IVANOV, V.A., prof.; PETUSHKOV, V.N. (Moskva)

Radiation burns. Khirurgia 38 no.10:11-15 0 '62.

(MIRA 15:12)

(RADIATION SICKNESS)

IVANOV, V.A., professor (Moskva, G-19, ul. Mayakovskogo, d.37, kv.47);  
KARPENKO, E.P.; LYUBSKIY, A.S.; STANISHEVSKIY, Yu.A.

Use of penicillin in surgery. Vest.khir. 89 no.7:74-79 J1 '62.  
(MIRA 15:8)

1. Iz kliniki obshchey khirurgii (zav. - prof. V.A. Ivanov)  
lechebnogo fakul'teta 2-go Moskovskogo meditsinskogo instituta  
im. N.I. Pirogova.  
(PENICILLIN) (SURGERY, OPERATIVE)

IVANOV, V.A.

Diagnosis of incompetent sutures in esophago-intestinal anastomosis. Vest.khir. 89 no.9:117-119 S '62. (MIRA 15:12)

1. Iz Sherekhovicheskoy rayonnoy bol'nitsy (glavnyy vrach - V.A.Ivanov). Adres avtora: Novgorodskaya oblast', Lyubytinskiy rayon, s. Sherekhovichi, Sherekhovichskaya rayonnaya bol'nitsa.  
(ESOPHAGUS--SURGERY) (INTESTINES--SURGERY)

IVANOV, V.A., zasluzhennyy vrach RSFSR

Inadequacy of sutures in esophago-intestinal anastomosis following gastrectomy. Vest.khir.no.1:26-36'63. (MIRA 16:7)

1. Iz Novgorodskogo oblast'nogo onkologicheskogo dispansera  
(glavnyy vrach - A.A.Gorbacheva) i Sherekhovichskoy rayonnoy  
bol'nitsy (glavnyy vrach V.A.Ivanov)  
(STOMACH--SURGERY) (SUTURES)

IVANOV, Vasily Alekseyevich; MOLODENKOV, Mikhail Nikolayevich;  
LOPUKHIN, Yuriy Mikhaylovich; PISAREVSKIY, A.A., red.;  
MIRONOVA, A.M., tekhn. red.

[Surgery] Khirurgiia. Moskva, Medgiz, 1963. 426 p.  
(MIRA 16:6)

(SURGERY)

IVANOV, V.A., prof.

Wound and surgical infection. Report No.1. Khirurgia 39 no.7:  
4-13 J1'63 (MIRA 16:12)

1. Iz kafedry obshchey khirurgii (zav. - prof. V.A. Ivanov)  
II Moskovskogo gosudarstvennogo meditsinskogo instituta imeni  
N.I.Pirogova.



IVANOV, V.A.; KUCHMINA, N.Ya. FETISOVA, L.N.

Test with an isolated heart as a rapid method of a preliminary evaluation of the toxicity of sewage and its ingredients. Trudy Vor.med. inst. 47:41-46 '62 (MIRA 16:12)

1. Kafedra gigiyeny Voronezhskogo meditsinskogo instituta i laboratoriya Voronezhskogo filiala Vsesoyuznogo nauchno-issledovatel'skogo instituta sinteticheskogo kauchuka po kharakteristike stochnykh vod proizvodstva sinteticheskogo kauchuka.

IVANOV, V.A., prof.

"Tissue factors" in the physiology of the suppurative process.  
Report No.2. Khirurgiia 39 no.9:29-38 S'63 (MIRA 17:3)

1. Iz kafedry obshchey khirurgii lechelnogo fakul'teta (zav. -  
prof. V.A. Ivanov) II Moskovskogo gosudarstvennogo meditsinskogo  
instituta imeni Pirogova.

IVANOV, Vasily Alekseyovich; MOLODENKOV, Mikhail Nikolayevich;  
MONAYENKOV, A.M., red.

[Neurodystrophic lesion of the internal organs in chronic irritations of the vegetative nervous system] Neurodistroficheskie porazheniya vnutrennikh organov pri khronicheskom razdrazhenii vegetativnoi nervnoi sistemy. Moskva, Med'tsina, 1964. 115 p. (MIRA 17 5)

KARTAVENKO, A.N., prof.; IVANOV, V.A., dotsent.

Late results of the use of combined pneumothorax in the treatment  
of pulmonary tuberculosis. Sov. med. 27 no.3:99-63 Mr '64.  
(MIRA 17:11)

1. Kafedra gospiatal'noy khirurgii (zav. -- prof. A.N. Kartavenko)  
Smolenskogo meditsinskogo instituta.

ABBASOV, A.R.; ALIMURATOV, A.S.; ISKANDAROV, I.I.; KADIMOV, V.I.; KUMAROV, I.I.;  
MOLODTSEV, A.I.; MUKOMINOV, V.I.; MUKOMINOV, V.I.; MUKOMINOV, V.I.;  
YUDIN, O.I.; YASHOV, I.V.

Radioastronomical observations of the solar eclipse of July 21,  
1963 in the microwave band. Vest. IGU 20 no.1:102-109 '65.  
(MIRA 18:2)

L 16621-6 INT(1)/BNA(1) JM

ACC NR: AP6003554

SOURCE CODE: UR/0109/66/011/001/0051/0057

AUTHOR: Vikulov, I. K.; Ivanov, V. A.; Mnoyan, V. I.; Tagger, A. S.

ORG: none

TITLE: Superregenerative backward-wave amplifier <sup>2P</sup><sub>B</sub>

SOURCE: Radiotekhnika i elektronika, v. 11, no. 1, 1966, 51-57

TOPIC TAGS: superregenerative amplifier, backward wave amplifier

ABSTRACT: In reference to the D. N. Thomson theoretical work (Proc. Nat. El. Conf., 1960, 16, 753-765) and to the R. Walter et al. experimental work in the millimeter band (Proc. IEEE, 1964, 52, 6, 711), the article presents the results of an experimental investigation of an O-type BW amplifier operated at 1-4 Mc under superregenerative conditions. Plots of amplifier gain vs. various parameters (including resonance-curve shapes) are shown. The amplifier frequency spectrum and noise factor were measured. These conclusions are offered: (1) The superregenerative BW amplifier gain is much (30 db) higher than that of the regenerative amplifier; (2) The superregenerator passband can be electrically controlled by varying the frequency and voltage of modulation, while the gain can be maintained constant; (3) The noise factor of the superregenerator is roughly equal to that of the regenerative amplifier. Orig. art. has: 9 figures and 1 table. [03]

SUB CODE: 09 / SUBM DATE: 11Sep64 / ORIG REF: 001 / OTH REF: 003

ATD PRESS: 4205

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UDC: 621.385.633.1 <sub>2</sub>

SOV/112-57-9-19268

Translation from: Referativnyy zhurnal, Elektrotehnika, 1957, Nr 9, p 190 (USSR)

AUTHOR: Ivanov, V. A.

TITLE: Units of a Simulator (Blok modeliruyushchey ustanovki)

PERIODICAL: Sb. rabot po avtomatike i telemekhanike. M., AN SSSR, 1956,  
pp 134-145

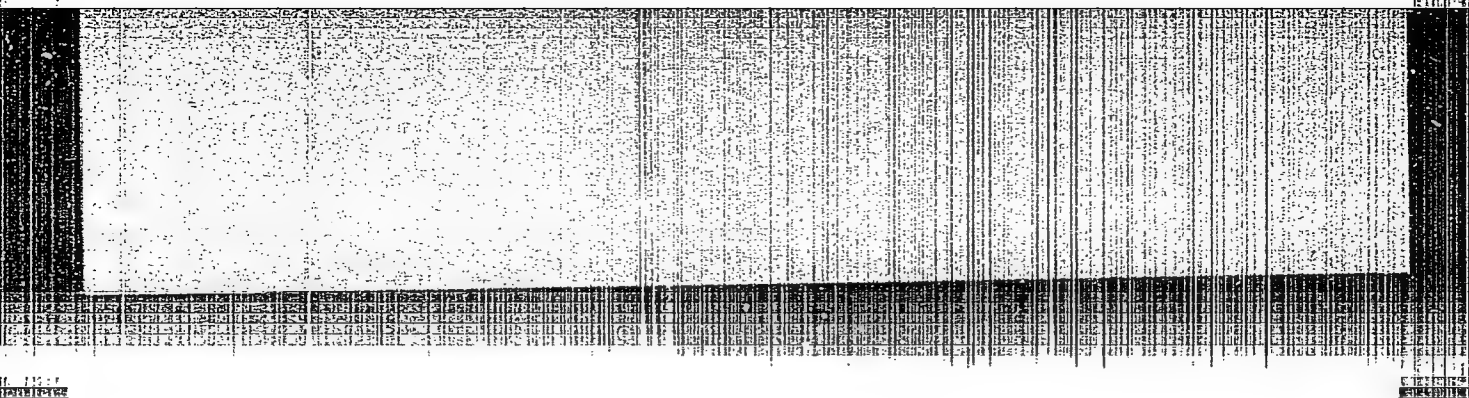
ABSTRACT: A delay-unit circuit and special converter units for formation of an output voltage that is a linear, parabolic, or exponential function of a mechanical shift value. A capacitor-type delay-unit circuit is presented, the relationship among elements of the circuit is pointed out, and some test results are given with delay times of 1 to 14 seconds. Converter units are based on a differential bridge with inductive pickups, with subsequent rectification and amplification of signals. To form functional relations, the circuit is supplemented by elements using electron-tube characteristics.

I. M. V.

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"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000619120016-5



APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000619120016-5"



IVANOV, V. A.: Master Tech Sci (diss) -- "The development and investigation of a system of automatic control of welding by electro-turbo welding machines".

Moscow, 1959. 10 pp (Acad Sci USSR, Inst of Automatics and Telemechanics), 130 copies (KL, No 13, 1959, 105)

PHASE I BOOK EXPLOITATION

SOV/4552

Ivanov, V. A., G. P. Solodenko, I. M. Gissin, and N. N. Ignatenko

Kompleksnaya mekhanizatsiya i avtomatizatsiya na zavode Rostsel'mash (Full Mechanization and Automation at the Rostsel'mash [Rostov-na-Donu Agricultural Machinery] Plant). [Rostov-na-Donu] Rostovskoye knizhnoye izd-vo, 1959. 185 p. Errata slip inserted. 2,000 copies printed.

Ed.: I. V. Zherebkov; Tech. Ed.: M. V. Marinyuk.

PURPOSE: This book is intended for technical personnel in plants and design institutes, innovators in production and students of engineering schools of higher education.

COVERAGE: The authors present the results of experience gained from the mechanization and automation of the Rostsel'mash Plant. Problems of line production are discussed and ways for solving these problems are considered. The authors describe lines and installations adopted in assembly and press-forging shops. Special attention is paid to the mechanization of organic coating. The final section of the book deals with the full mechanization of foundry processes and

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Full Mechanization and Automation (Cont.)

80V/4552

is based on the experience of the same plant. The authors thank Engineers L. L. Antonov, A. I. Koryagin, V. A. Shadchinev, G. V. Mashenskiy and V. K. Malokhovskiy who assisted in selecting material for the book. There are 7 references, all Soviet.

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Full Mechanization and Automation of Manufacture	5
Mechanization and Automation in Assembly Shops	12
Line production - the basis of mechanization and automation	12
Types and construction of conveyers	16
Mechanization of assembling	30
Mechanization of welding	45
Mechanization of organic coating	57
Coating installations	63
Drying of coated products	92
Mechanization and Automation in Press-Forging Shops and Manufacture of Metallic Products	107
Mechanization and Automation in Foundries	128
AVAILABLE: Library of Congress	VK/wrc/fal
Card 2/2	11-28-60

DOGANOVSKIY, Stanislav Anatol'yevich; IVANOV, Vasil'y Aleksandrovich;  
CHELYUSTKIN, A.B., red.; SHIKIN, S.T., tekhn.red.

[Controlled time-delay units] Bloki reguliruemogo zapazdyvaniia.  
Moskva, Gos.energ.izd-vo, 1960. 61 p. (Biblioteka po avtomatike,  
no.14). (MIRA 13:10)

(Automatic control)

**Kulsherry, V.S.** See Problem of Automatic Control Systems With a Delay Expressed by Linear Differential Equations With a Time Lag  
The authors present the concept of automatic delay control, methods of solving differential equations with a time lag, and describe some methods of solving differential equations with a time lag. There are 15 references.  
4 Serdyuk, I. M., and S. G. Gerasimov.  
4 Serdyuk, I. M., and S. G. Gerasimov.

8 (5), 28 (1), 25 (2)

AUTHORS: Chelyustkin, A. B., Candidate of  
Technical Sciences, Ivanov, V. A.,  
Candidate of Technical Sciences

S/105/60/000/02/003/024  
B007/B008

TITLE: A Self-tuning System for the Automatic Control<sup>14</sup> of the Welding  
Process of Electric Tube-welding Machines<sup>14</sup>

PERIODICAL: Elektrichestvo, 1960, Nr 2, pp 13 - 18 (USSR)

ABSTRACT: The systems for the control of production processes are provided  
with computing devices. These carry out an automatic tuning of  
their parameters with a variation of the characteristics of the  
object to be controlled. The parameters of the compensating  
computation device must therefore be corrected with the varia-  
tion of the characteristics of the object and the controller.  
A method (Ref 5) in which such a correction takes place by way  
of an investigation of the so-called pseudo-cross-correlation

function  $\varphi(t) = \int_0^t x(t) \cdot f(t - \tau)dt$ , is discussed.  $\tau$  is the

retardation time,  $f(t)$  is the disturbance. It follows from the  
formula that if the invariance condition is fulfilled, the

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A Self-tuning System for the Automatic Control of  
the Welding Process of Electric Tube-welding  
Machines

S/105/60/000/02/003/024  
B007/B008

function  $\varphi(t)$  assumes a finite stable value. This method, compared with others, shows a high degree of immunity from disturbance. In a great number of control objects, the transmission factor is the only variable parameter of the characteristic, while the transmission function itself remains practically constant. A welding machine for the electric welding of tubes belongs also to such objects. A tube with different ohmic and inductive resistance can be welded at unchanged time constants of the control circuit for the welding current. The task of the self-tuning consists here in adjusting the nominal value of the transmission factor, which corresponds to the transmission factor of the object, in the compensating computing device. As an example for the application of such a self-tuning system, one for the self-tuning of the welding process in an electric tube welding machine is investigated. The control system of the machine and that during welding respectively is described first. A compensating device is incorporated additionally. It allows to vary the welding current amperage according to the thickness of the sheet metal strip in such a way that the welding

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A Self-tuning System for the Automatic Control of  
the Welding Process of Electric Tube-welding  
Machines

S/105/60/000/02/003/024  
B007/B008

temperature remains constant. The basic wiring diagram of such a control is shown in figure 3. The working method of the compensating device is described. A second computing device is applied in the self-tuning system to increase the immunity from disturbance. This computes the pseudo-cross-correlation function

$$\varphi(t) = \int_0^t \Delta\theta \cdot \Delta\delta \cdot dt, \Delta\theta \text{ being the time function of the temperature variations at the welding seam and } \Delta\delta \text{ the time function of the variations in thickness. Formulas (7) and (8) are derived. The parameters of the main links of the first compensation device at known object parameters can be determined from these formulas. The transition processes in the self-tuning system are then investigated too. The system described here was tried out in an electric tube welding machine. The welding temperature diagrams for manual and automatic control are shown in comparison in figure 5. It can be seen therefrom, that the temperature variations decrease considerably in the case of automatic control. There are 5 figures and 6 Soviet references.}$$

temperature variations at the welding seam and  $\Delta\delta$  the time function of the variations in thickness. Formulas (7) and (8) are derived. The parameters of the main links of the first compensation device at known object parameters can be determined from these formulas. The transition processes in the self-tuning system are then investigated too. The system described here was tried out in an electric tube welding machine. The welding temperature diagrams for manual and automatic control are shown in comparison in figure 5. It can be seen therefrom, that the temperature variations decrease considerably in the case of automatic control. There are 5 figures and 6 Soviet references.

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A Self-tuning System for the Automatic Control of  
the Welding Process of Electric Tube-welding  
Machines

S/105/60/000/02/003/024  
B007/B008

ASSOCIATION: Institut avtomatiki i telemekhaniki AN SSSR (Institute of  
Automation and Telemechanics of the AS USSR)

SUBMITTED: July 14, 1959

Card 4/4

S/114/60/000/006/007/008  
E194/E355

AUTHORS: Berenshteyn, M.G., Ivanov, V.A. and Ponomarev, I.M.

TITLE: An Electrical Manometer Constructed by BMZ

PERIODICAL: Energomashinostroyeniye, 1960, No. 6,  
pp. 37 - 38

TEXT: In various kinds of transient tests on steam turbines, for example, in tests of load-throwing, it is often necessary to measure variable pressures. Because of their inertia ordinary manometers are not satisfactory for this purpose, even when cine-film recordings are made of their readings. In testing the hydrodynamic control system of turbine type АПТ-12-1 (APT-12-1), BMZ (Bryansk Machine Building Works) used an electrical manometer of low inertia. The principle of operation is that a strain gauge is fixed to a diaphragm that distorts under the pressure. The particular diaphragms used were 90 mm diameter and the thickness ranged from 1.5 mm for a maximum pressure of 4 kg/cm<sup>2</sup> to 4.7 mm for a maximum

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9.3260 (3302, 3104, 1067)

S/109/60/005/011/003/014  
E140/E483

AUTHORS: Kapranov, M.V., ~~Ivanov, V.A.~~ and Ivanova, N.N.

TITLE: Automatic Phase Control With Nonlinear Filter

PERIODICAL: Radiotekhnika i elektronika, 1960, Vol.5, No.11,  
pp.1774-1785

TEXT: In automatic phase control of oscillator frequency, the degree of noise filtering must decrease as the lock-in range increases. The article considers a nonlinear integrating network at the output of the phase detector consisting of opposed biased diodes in parallel with the integrating resistance (Fig.4). For small frequency deviation, hence with low output voltage from the phase detector, the circuit has a high time constant and good filtering properties. At large frequency (phase) excursion, the diodes short-circuit the resistance and the lock-in range approaches its maximum value. The equations of the system are derived assuming that the entire system except the filter is inertialess, the reactance tube characteristic is an unlimited straight line and that frequency modulation is not accompanied by parasitic amplitude modulation. The behaviour of the system is  
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86155  
S/109/60/005/011/003/014  
E140/E483

# Automatic Phase Control With Nonlinear Filter

analysed in the phase plane and four types of limit cycles are found. The analysis shows that under the given assumptions it is possible to increase the filter time constant without limit while preserving the maximum lock-in band for a given noise level. The circuit was verified experimentally and only small differences between the measured and predicted results were found. There are 11 figures and 7 references: 3 Soviet and 4 non-Soviet.

SUBMITTED: January 15, 1960

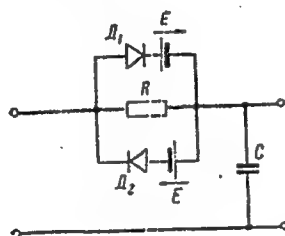


Fig.4.

Рис. 4.

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11500

22694

S/128/61/000/003/002/008  
A054/A127

AUTHORS: Ivanov, V. A., Kim, G. P.

TITLE: Casting of experimental batches of turbine wheels from EI572  
(EI572) steel with investment patterns

PERIODICAL: Liteynoye proizvodstvo, no. 3, 1961, 4-6

TEXT: At the Chelyabinskiy traktorny zavod (Chelyabinsk Tractor Plant) a new tractor, type T-130 was designed with a TKP-11 (TKR-11) type turbocompressor to perform the function of a booster, which so far has not been incorporated in conventional tractor designs. The most intricate part of this turbocompressor is its wheel which has to work at elevated temperatures, ranging between 600-640° C at a rotational speed of 38,000-42,000 rpm's. It consists of 18 regularly spaced blades with a deviation in pitch of  $\pm 0.3$  mm. The finished blade has a thickness of  $0.8 \pm 0.2$  mm at its thinnest part. The wheel is produced by precision casting with investment patterns from the ПС 50/50 (PS 50/50) compound cast in metallic press molds at 43-45°C. A special riser system had to be prepared from the same PS 50/50 compound by press-molding. (Figure 3). The turbine wheels are cast from

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S/128/61/000/003/002/008  
A054/A127

Casting of experimental batches...

EI572 steel produced in the МГП-102 (MGP-102) induction furnace with basic lining. The charge contained: sandblasted and dry steel waste (St.10), Ni, FeW, FeSi-45%, FeMo, electrode scrap etc. In subsequent meltings, 50% of the waste may be reused. Before charging, the furnace is flushed with a carbon-steel melt. The weight of the charge equals 150 kg. Melting is carried out at high speed and the maximum power of the induction generator. To eliminate unfavorable oxidization, a slag-forming mixture, consisting of 85% chromium-magnesite and 15% fluorite was added. After the whole charge was melted it was necessary to cover the whole surface of the molten metal with slag. After having heated the metal up to 1,540 - 1,560°C, the slag was removed and FeNb and low-carbon FeMn were introduced. At 1,600°C Ferrosilicon is added, followed by FeTi. After these additives had dissolved, the slag was removed again at 1,650 - 1,670°C and the oxidizer SiCa was added. Then the molten metal was poured into ladles with a 30-kg capacity, which have been heated up to 600 - 700°C. These ladles have also been lined with chromium-magnesite. Major difficulties of this process is the preparation of the investment pattern blocks consisting of the wheel pattern and the special

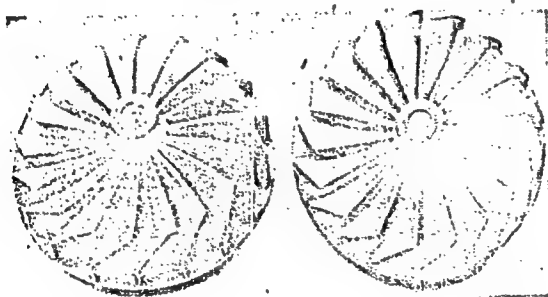
Card 2/4

Casting of experimental batches...

22694  
S/128/61/000/003/002/008  
A054/A127

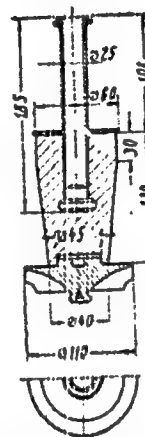
used. According to footnote 1, heat treatment methods have been established by the TsNIDI Institute. There are 4 figures.

Figure 1: Two cast turbine wheels



Card 4/4

Figure 2:  
Special riser  
system



KIRILLOV, I.I., doktor tekhn.nauk, prof.; IVANOV, V.A., inzh.

Frequency analysis of a certain class of equivalent links. Izv.  
vys. ucheb. zav.; energ. 4 no.10:60-67 O '61. (MIRA 14:11)

1. Leningradskiy politekhnicheskoy institut imeni M.I.Kalinina.  
Predstavlena kafedroy turbinostroyeniya.  
(Automatic control)



IVANOV, V.A., inzh.

Effect of the deviation from static autonomy conditions on the control dynamics of turbines with steam tap-off. Izv. vys. ucheb. zav.; energ. 5 no.3:60-66 Mr '62. (MIRA 15:4)

1. Leningradskiy politekhnicheskoy institut imeni M.I.Kalinina.  
Predstavlena kafedroy turbinostroyeniya.  
(Steam turbines)

DIYAROV, D.O. (Gur'yev); IVANOV, V.A. (Gur'yev)

Problem of the unsteady flow of a two-phase fluid in a porous medium under elastic conditions. Izv. AN SSSR. Mekh. i mashinostr. no.6:91-92 N-D '63. (MIRA 17:1)

KIRILLOV, I.I., doktor tekhn. nauk, prof.; IVANOV, V.A., kand. tekhn. nauk

Static nonautonomous systems for joint control of turbines with  
steam takeoff. Izv. vys. ucheb. zav.; energ. 6 no. 9:65-  
74 S '63. (MIRA 16:12)

1. Leningradskiy politekhnicheskii institut imeni Kalinina.  
Predstavlena kafedroy turbinostroyeniya.

ACCESSION NR: AP4010491

S/0080/64/037/001/0202/0204

AUTHORS: Danilkin, V.I.; Kudryatsev, L.A.; Ivanov, V.A.

TITLE: Method of determining the nature of the electric conductivity of potassium glasses.

SOURCE: Zhurnal prikladnoy khimii, v.37, no.1, 1964, 202-204

TOPIC TAGS: potassium glass, electrical conductivity, potassium ion, borosilicate glass

ABSTRACT: In the apparatus shown in the figure a series of runs were made at different current densities to determine the ratio of the electric charges to the mass of the charge carrier, and the current yield, in order to verify the ionic nature of electrical conductance in potassium glasses. In all cases the amount of potassium formed corresponded to the amount of electricity passed. This electricity was consumed in the ionic transfer of potassium from the potassium nitrate melt through the glass in a vacuum with its subsequent neutralization. A borosilicate glass containing 20 mol.%  $K_2O$  was investigated and its conductivity was found to be caused only by the posi-

Card 1/37

ACCESSION NR: AP4010491

tive potassium ion. Orig. art. has: 1 figure, 1 table and 3 equations.

ASSOCIATION: None

SUBMITTED: 17Dec62

DATE ACQ: 14Feb64

ENCL: 01

SUB CODE: PH

NR REF SOV: 000

OTHER: 004

Card 2/37

BERENSHTEYN, M.G., inzh.; IVANOV, V.A., inzh.

Results of testing the hydrodynamical control system of the APT-12-1  
turbine. Energomashinostroenie 7 no.5:39-40 My '61.  
(MIRA 14:8)

(Steam turbines)

KIRILLOV, I.I., doktor tekhn.nauk; IVANOV, V.A., inzh.

Stability and transient regulation process of turbines with  
intermediate steam reheating. Teploenergetika 8 no.10:55-  
60 0 '61. (MIRA 14:10)

1. Leningradskiy politekhnicheskii institut.  
(Steam turbines)

MARKUS, John; ALTAYEV, V.Ya., inzh.[translator]; BAYKOVSKIY, V.Ya., inzh.  
[translator]; ZAYMOVSKIY, Ye.A., inzh.[translator]; KOROVYAKOV,  
D.E., inzh.[translator]; MOKEYEV, O.K., inzh.[translator];  
YAROSHEVSKIY, Yu.A., inzh.[translator]; IVANOV, V.A., kand. tekhn.  
nauk, red.; SOKOLOV, A.A., kand. tekhn. nauk, red.; BASKAKOVA, L.B.,  
red.; DZHATIYEVA, F.Kh., tekhn. red.

[Handbook of electronic control circuits] Skhemy elektronnoi avto-  
matiki. Pod red. i s predisl. V.A.Ivanova i A.A.Sokolova. Mo-  
skva, Izd-vo inostr. lit-ry, 1962. 342 p. Translated from the English.  
(Electronic control) (Electronic circuits) (MIRA 15:12)  
(Automatic control)



IVANOV, V.A.

Control circuit for current pulse amplitudes. Izm.tekh. no.2;  
16 F '64. (MIRA 17:4)

NERILLOV, I.I.; YABLOUV, R.M., kand. tekhn. nauk, dots.,  
retsensent; IVANOV, V.A., kand. tekhn. nauk, red.

[Theory of turbomachines] Teoriia turbomashin. Moskva,  
Mashinostroenie, 1964. 510 p. (MIRA 17:8)

1. 24720-66 EWT(m)/EWP(j) IJP(c) RM

ACC NR: AP6009511

SOURCE CODE: UR/0413/65/000/005/0020/0021

AUTHOR: Ivanova, V. A.; Genkin, N. D.; Vorob'yev, V. D. Ginzburg, B.G.;  
Zharavin, K. N.; Korchilava, Ye. Ya.; Savost'yanova, N. G.

ORG: none

TITLE: Preparation of Captax-2-mercaptobenzothiazole. Class 12,  
No. 179306 announced by the Scientific Research Institute of Organic  
Semifinished Products and Dyes and the Berezniki Plant of Aniline  
Dyes (Nauchno-issledovatel'skiy institut organicheskikh poluproduktov  
i krasiteley i Bereznikovskiy anilinokrasochnyy zavod))

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki,  
no. 5, 1966, 20-21

TOPIC TAGS: captax, mercaptobenzothiazole, aniline, aniline dye

ABSTRACT: An Author Certificate has been issued describing a method  
for preparing Captax-2-mercaptobenzothiazole by melting aniline,  
sulfur, nitrobenzene, carbon bisulfide at elevated temperatures and  
pressure, followed by dissolving the melt in a water solution of  
alkali hydroxide or milk of lime, purifying the solution obtained  
and separating the product. To improve the quality of Captax, de-  
contaminate the waste water and make it possible to use the solution

Card 1/2

UDC: 547.789.6'2.07

ACC NR: AP6009511

of the alkali Captax melt for the production of sulfuramides, the purification is conducted by extraction with benzene polychlorides, chlorobenzene, benzene, or their water emulsions, followed by removal of the residue of the solvent by conventional methods. [LD]

SUB CODE: 11/

SUBM DATE: 08Aug64/

Card 2/2 fv

ACC NR: AP6030919

SOURCE CODE: UR/0207/66/000/004/0030/0037

AUTHOR: Ivanov, V. A. (Moscow)

ORG: none

TITLE: The break-up of a liquid jet

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 4, 1966, 30-37

TOPIC TAGS: ~~fuel injection~~, ~~fuel atomization~~, ~~propulsion~~, ~~liquid~~ jet, jet break up, fluid flow, gas flow, flow analysis

ABSTRACT: An analysis was made of the break-up of a liquid jet discharging into a gas medium. In the experiments, the discharge velocity of the jet was varied by varying the velocity of the cocurrent or countercurrent gas stream, and the jet break-up was photographed. The experiments were carried out with water, glycerine, castor oil, and diesel fuel. In the analysis, equations were derived for the length and time before break-up of the jet, the effect of the perturbation wave length and wave number, and the effect of viscosity. Orig. art. has: 41 formulas and 9 figures.

SUB CODE: 2D/ SUBM DATE: 15Jun65/ ORIG REF: 007

Card 1/1

RYAKHIN, V.A., kand. tekhn. nauk; IVANOV, V.A., inzh.

Excavators and self-propelled cranes in the Soviet Union. Stroi.  
i dor. mash. 9 no.8:6-8 Ag '62 (MIRA 18:1)

CHERNOSVITOV, Yu.L.; DZENS-LITOVSKIY, A.I.; IVANOV, V.A.;  
KULICHKOV, S.A.; nauchn. red.

[Industry's requirements as to the quality of mineral raw materials; a handbook for geologists] Trebovaniia pro-myshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov. Moskva, Nedra. Nos.9, 77. 1965.

(MIRA 18:9)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya.

L 4010-66 EWT(d)

ACCESSION NR: AP5024407

UR/0286/65/000/015/0087/0087

27  
E

AUTHOR: Ivanov, V. A.

TITLE: Method for determining the direction of the meridian. Class 42, No. 173429

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 87

TOPIC TAGS: gyroscope system, gyro sextant

ABSTRACT: This Author Certificate presents a method for determining the direction of the meridian, using a two-stage floating gyroscope with its angular momentum directed vertically. To utilize the method in deep holes using gyroscopes with small angular momenta, a case containing the gyroscope is rotated about the vertical axis coinciding with the geometric axis of the gyroscope. The direction of the meridian is determined by the position of the established extreme value of the angle of deviation of the gyroscope. The motor rotating the case with the gyroscope inside is rotated at a constant rate. The magnitude of the extreme value of the deviation angle is determined by the subsequent interpretation of the signal recording from the deviation angle detector.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut im. V. I. Ul'yanova  
(Leningrad) (Leningrad Electrical Engineering Institute)  
Card 1/2

UDC: 53.082.16



L 4010-66

ACCESSION NR: AP5024407

SUBMITTED: 22Jan64

ENCL: 00

SUB CODE: NG

NO REF SOV: 000

OTHER: 000

*Leh*

Card 2/2

IVANOV, V.A.; PLANOVSKIY, A.N.

Kinetic calculations of plate towers with the use of the enthalpy diagram. Khim. prom. 41 no.8:609-611 Ag '65. (MIRA 18:9)

IVANOV, Vasilii Aleksandrovich, laureat Leninskoy prerii; LIFSHITS,  
S.G., red.

[On the path toward the new goals] Na puti k novym rubezham.  
Rostov-na-Donu, Rostovskoe knizhnoe izd-vo, 1964. 141 p.

(MIRA 18:3)

1. Predsedatel' Soveta narodnogo khozyaystva Severo-  
Kavkazskogo ekonomicheskogo rayona (for Ivanov).

BAKULEV, A.N., akademik; BUNYATYAN, A.A., kand. med. nauk;  
BURAKOVSKIY, V.I., doktor med. nauk; BUYANOV, V.M., dots.;  
GULYAYEV, A.V., prof.; ZAKETSKIY, V.V., doktor med. nauk;  
IVANOV, V.A., prof.; KOLEJNIKOV, S.A., prof.; LOBACHEV,  
S.V., prof.; LOPUKHIN, Yu.M., prof.; MURATOVA, Kh.H., doktor  
med. nauk; PETROVSKIY, B.V., zasl. deyatel' nauki RSFSR, prof.;  
SAVEL'YEV, V.S., prof.; SERGEYEV, V.M., doktor med. nauk;  
SOLOV'YEV, G.M., prof.; SOLOV'YEVA, I.P.; BURAKOVSKIY, V.I.,  
red.

[Multivolume manual on surgery] Mnogotomnoe rukovodstvo po khir-  
urgii. Moskva, Meditsina. Vol.6. Pt.1. 1965. 577 p.

(MIRA 18:10)

1. Deystvitel'nyy chlen AMN SSSR (for Petrovskiy).

IVANOV, V.A., prof.; ALBOK, Yul., 1908, V.A.

Complications following radical surgery on stomach  
and esophagus. Sov. med. 48 no.3:49-51. Mar '65.

(MIRA 18:10)

1. Kafedra obshchey khirurgii (zav. - prof. V.A. Ivanov) Ichnitskogo  
fakul'teta II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova.

GROSHEV, L.V.; DEMIDOV, A.M.; IVANOV, V.A.; LUTSENKO, V.N.; FELDKHOV, V.I.;  
SHADIYEV, N.

Levels of the  $\text{Er}^{168}$  nucleus excitable in the  $(n, \gamma)$  reaction. Izv.  
AN SSSR.Ser.fiz. 29 no.5:772-781 My '65. (MIRA 18:5)

L 54785-65 EWT(m) Feb DIAAP

ACCESSION NR: AP5013994

UN/0048/65/0129/0015/0772/0721.

AUTHOR: Groshev, L.V.; Demidov, A.M.; Ivanov, V.A.; Lutsenko, V.N.; Pale

TITLE: Levels of erbium 168 excited by neutron capture (Report, 15th Annual Conference on Nuclear Spectroscopy and the Structure of the

ATOMIC NUCLEUS DATA IN MINER, 25 JAN-2 FEB 1965/  
SOURCE: AN SSSR.Izvestiya.Seriya fizicheskaya,v.29, no.5, 1965, 772-781

TOPIC TAGS: gamma ray spectrum, neutron capture, erbium, internal conversion

ABSTRACT: The gamma rays between 0.6 and 8 MeV from the  $\text{Er}^{167}(\text{n},\gamma)\text{Er}^{168}$  reaction were investigated with a magnetic Compton spectrometer with a resolution of 0.3% for gamma ray energies above 2 MeV. The spectrometer has been described elsewhere (L.V.Groshev, A.M.Demidov, V.N.Lutsenko and A.F.Malov, Izv. AN SSSR, Ser. fiz. 24, 791, 1960). The



Card 1/3

L 54785-65

ACCESSION NR: AP5013894

sample was  $\text{Er}_2\text{O}_3$  with the natural isotopic composition, to which  $\text{Er}^{167}$  contributes 90% of the low neutron capture cross section. Possible origins of the gamma rays are discussed and it is concluded that those with energies above 6760 keV but not between 6765 and 6800

Er-168 contributes 80% of the low neutron capture cross section. Possible origins of the gamma rays are discussed and it is concluded that those with energies above 5760 keV but not between 6185 and 6248 keV can be confidently assigned to Er-168. Nineteen such gamma rays are tabulated; there are also tabulated 13 gamma rays with energies between 5000 and 5760 keV of which the origin is in doubt and 23 with energies below 1400 keV which are ascribed to Er-168. The estimated errors of the energy measurements range from 2 to 8 keV. The measured relative intensities were converted to absolute intensities by normalizing the total radiated energy to the neutron binding energy.

Card 2/3

ACCESSION NR: AF5013994

gram encompassing 19 levels below 1996 keV and 47 transitions was derived for  $\text{Er}^{168}$ . This diagram and the reasons for some of the spin and parity assignments are discussed in considerable detail. The

08 7/68 1-4 REV. Orig. art. has 2 figures and 6 tables.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: NP

NR REF SOV: 005

OTHER: 007

Card 3/3

IVANOV, V.A. (Gur'yev)

Phase permeability of a porous medium by a percolating three-phase flow. Izv. AN SSSR. Mekh. no.1:200-203 Ja-F '65.

(MIRA 18:5)

ALEKHIN, F.K.; ALOTIN, L.M.; ALTAYEV, Sh.A.; ANTONOV, P.Ye.;  
BEVZIK, Yu.Ya.; BELEN'KIY, D.M.; BRATCHENKO, B.F.,  
gornyy inzh.; BRENNER, V.A.; BYR Ka, 7.F.; VAL'SHTEYN,  
G.I.; YERMOLENOK, N.S.; ZHISLIN, I.M.; IVANOV, V.A.;  
IVANCHENKO, G.Ye.; KVON, S.S.; KODYK, G.T.; KREMENCHUTSKIY,  
N.F.; KURDYAYEV, B.S.; KUSHCHANOV, G.K.; MASTER, A.Z.;  
PREOBRASHENSKAYA, Ye.I.; ROZENTAL', Yu.M.; RUDOY, I.L.;  
RUSHCHIN, A.A.; RYBAKOV, I.P.; SAGINOV, A.S.; SAMSONOV,  
M.T.; SERGAZIN, F.S.; SLEPCHUK, V.M.; USTINOV, A.M.;  
UTTS, V.N.; FEDOTOV, I.F.; KHRAPKOV, G.Ye.; SHILENKOV, V.N.;  
SHNAYDMAN, M.I.; BOYKO, A.A., retsenzent; SUROVA, V.A.,  
ved. red.

[Mining of coal deposits in Kazakhstan] Razrabotka ugol'-  
nykh mestorozhdenii Kazakhstana. Moskva, Nedra, 1965. 292 p.  
(MIRA 18:5)

IVANOV, V.A., inzh.

Measurement and control of electric signal amplitude by means of  
the S1-8 oscillograph. Priborostroenie no.2:23-24 F 15.  
(MIRA 18:3)

IVANOV, V.A.; STEPANOVA, N.M.; POGORELOVA, M.V.

Experimental basis for the maximum permissible butyl acrylate concentration in the water of reservoirs and rivers. San. okhr. vod. ot zagr. prom. sto.h. vod. no.6:134-146 '64.

(MIRA 18:3)

1. Kafedra gigiyeny Voronezhskogo meditsinskogo instituta i laboratoriya Voronezhskogo filiala Vsesoyuznogo nauchno-issledovatel'skogo instituta iskusstvennogo kauchuka imeni S.V.Lebedeva.



IVANOV, V.A., prof.; MOLODENKOV, M.N., dotsent

Introduction of drugs into the arterial blood stream. Khirurgiia 40 no.4:58-63 Ap '64 (NIRA 18:1)

1. Kafedra obshchey khirurgii (zav. - prof. V.A. Ivanov) lechelnogo fakul'teta II Moskovskogo gosudarstvennogo meditsinskogo instituta imeni N.I. Pirogova.

CHAKABAYEV, S.Ye.; IMASHEV, N.U.; TOKAREV, V.P.; KONONOV, Yu.B.; KORSUN, P.Ye.;  
VOTSALEVSKIY, E.S.; IVANOV, V.A.; FARAFONOVA, N.V.; SHAKHOVOY, A.I.

Uzen' gas and oil field; outline of geology and oil and gas potentials.  
Izv. AN Kazakh. SSR. Ser. geol. 21 no.4:16-30 J1-Ag '64. (MIRA 17:11)

1. Institut geologii i geofiziki, Gur'yev.

IVANOV, V.A.

Production of high-quality turpentine. Gidroliz. i lesokhim.prom.  
15 no.1:24-25 '62. (MIRA 18:3)

1. Kiyevskiy lesokhimicheskiy kombinat.

IVANOV, V.A.; MURZAYEV, P.M.

Conference on the geology of sulfur. Sov. geol. 6 no.11:  
153-156 N '63. (MIRA 17:1)

1. Gosudarstvennyy geologicheskii komitet SSSR i Kishinevskiy  
geologicheskii institut.

IVANOV, Vasilii Alekseyevich; MOLODENKOV, Mikhail Nikolayevich;  
LOPUKHIN, Yuriy Mikaylovich; PISAREVSKIY, A.A., red.

[Surgery] Khirurgiia. 2. izd., perer. i dop. Moskva,  
Meditsina, 1965. 445 p. (MIRA 18:7)

MELESHIN, S.M., kand. tekhn. nauk; IVANOV, V.A., inzh.

Ways of expanding iron on mining in the U.S.S.R. Shakht. stroi.  
8 no.5:1-4 My'64 (MIRA 17:7)

1. Gosplan SSSR (for Meleshkin), 2. Gosudarstvennyy komitet po  
chernoy i tsvetnoy metallurgii pri Gosplane SSSR (for Ivanov).

IVANOV, V.A.

Savings due to the introduction and automation of production  
processes in enterprises of the Leningrad Economic Council.  
Bul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i tekh.inform.  
16 no.6:82-85 '63. (MIRA 16:8)  
(Leningrad Province--Technological innovations) (Automation)

SMIRNOV, Dmitriy Vasil'yevich, dots.; TANASEVICH, Valerian  
Grigor'yevich, kand. jurid. nauk; IVANOV, V.A., dots.,  
otv. red.; TIKHONOVA, G.P., red.

[Principles of accounting and forensic accounting  
expertise] Osnovy bukhgalterskogo ucheta i sudebno-  
bukhgalterskoi ekspertizy. Leningrad, Izd-vo Leningr.  
univ., 1964. 139 p. (MIRA 18:1)

1. Ekonomicheskii fakul'tet Leningradskogo gosudarstven-  
nogo universiteta (for Smirnov). 2. Vsesoyuznyy Institut  
po izucheniyu prichin i razrabotke mer preduprezhdeniya  
prestupnosti (for Tanasevich).



IVANOV, V.A.

Surveys of the degree of technological standards of production  
in enterprises of the Leningrad Economic Council. Bul. tekhn.-  
ekon. inform. Gos. nauch.-issl. inst. nauch. i tekhn. inform. 17  
no.3:86-88 '64. (MIRA 17:9)

1940, 1941.

During 1940 and 1941, the following were interviewed: The  
British Foreign Office Council, Excl. Commission, Excl. Com.  
Nationality, Excl. Com. Excl. Com. Excl. Com. Excl. Com.  
Excl. Com.

NIKITIN, N.I.; IVANOV, V.A.

Group liquefied-gas units with underground reservoirs, Gaz. prom.  
9 no.2:41-43 1964. (MIRA 17:12)

IOFIN, S.L., gornyy inzh.; IVANOV, V.A., gornyy inzh.; SHPIL'BERG, B.A., gornyy inzh.; KUVAYTSEV, A.A., ~~gornyy~~ inzh.

Specification for complex ores. Gor. zhur. no.7:7-9 JI '64.

(HIRA 17:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tsvetnoy metallurgii (for Iofin, Ivanov, Shpil'berg). 2. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy tsvetnoy metallurgii (for Kuvaytsev).

L 03620-67 EWT(1)

ACC NR: AP6019012

SOURCE CODE: UR/0106/66/000/006/0044/0052

AUTHOR: Belov, L. A.; Blagoveshchenskiy, M. V.; Ivanov, V. A.;  
Kapranov, M. V.; Utkin, G. M.; Khryunov, A. V.

22  
B

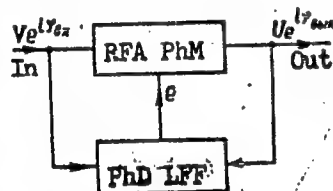
ORG: none

TITLE: Automatic phase control in amplifiers [Reported at the MEI Annual Conference and at the NTORIE Conference, 1964]

SOURCE: Elektrosvyaz', no. 6, 1966, 44-52

TOPIC TAGS: electronic amplifier, rf amplifier, automatic phase control

ABSTRACT: A possibility is discussed of stabilizing the phase of an rf amplifier by means of an automatic-phase-control feedback loop. Phase modulator PhM (see figure) is intended for compensating phase drifts that arise in rf amplifier RFA; these two devices may be designed as a joint unit or as separate units. Phase detector PhD produces an error signal which is due to a deviation of the output-input phase



Card 1/2

UDC: 621.396.647

L 03620-67

ACC NR: AP6019012

0

difference from its nominal value. To reduce this error signal to zero, a phase shifter is connected to one of the PhD inputs; this makes a phase-difference reference unit. The error signal between PhD and PhM can be amplified by a d-c amplifier with a 1-f filter LFF, which should take into account the inertia of the d-c amplifier and PhD. The error signal  $e$  applied to PhM corrects the phase deviation. Stabilizing characteristics of the automatic phase control are studied by setting up and examining its differential equations. The operation of the automatic phase control is illustrated by an example of a simple single-circuit resonant rf amplifier, with a reactance tube playing the role of PhM. The small-disturbance stability of the automatic-phase-control system is investigated for the cases of single-section and two-section RC filters. Orig. art. has: 7 figures and 29 formulas.

SUB CODE: 09 / SUBM DATE: 20Jan65 / ORIG REF: 003

Card 2/2 awm

Card 1/1 *awm*

UDC: 621.372.543.3

I. 08965-67

ACC NR: AP6021916 (A) SOURCE CODE: UR/0108/66/021/003/0038/0043

AUTHOR: Ivanov, V. A.

20

ORG: Scientific and Technical Society of Radio Engineering and Electro-communication im. A. S. Popov (Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi)

TITLE: Double-T feedback loop in a low-input-impedance transistorized amplifier

SOURCE: Radiotekhnika, v. 21, no. 3, 1966, 38-43

TOPIC TAGS: electronic amplifier, transistorized amplifier, negative feedback, feedback amplifier

ABSTRACT: Design formulas for the transistorized amplifier with a double-T-bridge negative feedback are developed, as well as the relations showing the effect of load on the bridge and RC-filter characteristics. A practical transistorized

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AUTHOR: Asatiani, T. L.; Gazaryan, K. A.; Zhmyrov, V. N.; Ivanov, V. A.; Matevosyan, E. M.; Nazaryan, A. A.; Filozov, A. F.; Sharkhatunyan, R. O.

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TITLE: On the possibility for measuring ionization of charged particles in a streamer chamber

SOURCE: AN ArmSSR. Izvestiya, Fizika, v. 1, no. 2, 1966, 127-130

TOPIC TAGS: ionization chamber, particle track, charged particle, neon, proton beam

ABSTRACT: Data are given from experiments conducted to determine the possibility of measuring the specific ionization of charged particles in a streamer chamber. The LYaP synchrocyclotron at OIYaI was used for passing protons with energies of 660, 200, 100 and 50 Mev through a streamer chamber measuring 50x35x15 cm filled with pure neon to a pressure of 1 atm. The results show  $1.8 \pm 0.4$  luminescent centers per cm of the proton track with a root-mean-square deviation of 0.29 mm from the approximating straight line. Microphotometric analysis of the films shows that the proposed method may be used for measuring the ionization of charged particles. In conclusion the authors thank Corresponding member AN SSSR A. I. Alikhanyan and Doctor of physical and mathematical sciences A. A. Tyapkin for cooperation and interest in the work. The authors are especially grateful to Candidate of physical and mathematical sciences

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A. F. Pisarev for assistance in carrying out the experiment and for useful discussions and also to V. N. Prokhorov for direct assistance with the measurements and to Yu. A. Zanevskiy for cooperation in the work. Orig. art. has: 3 figures.

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